



## FMINT27 Fitting Instructions

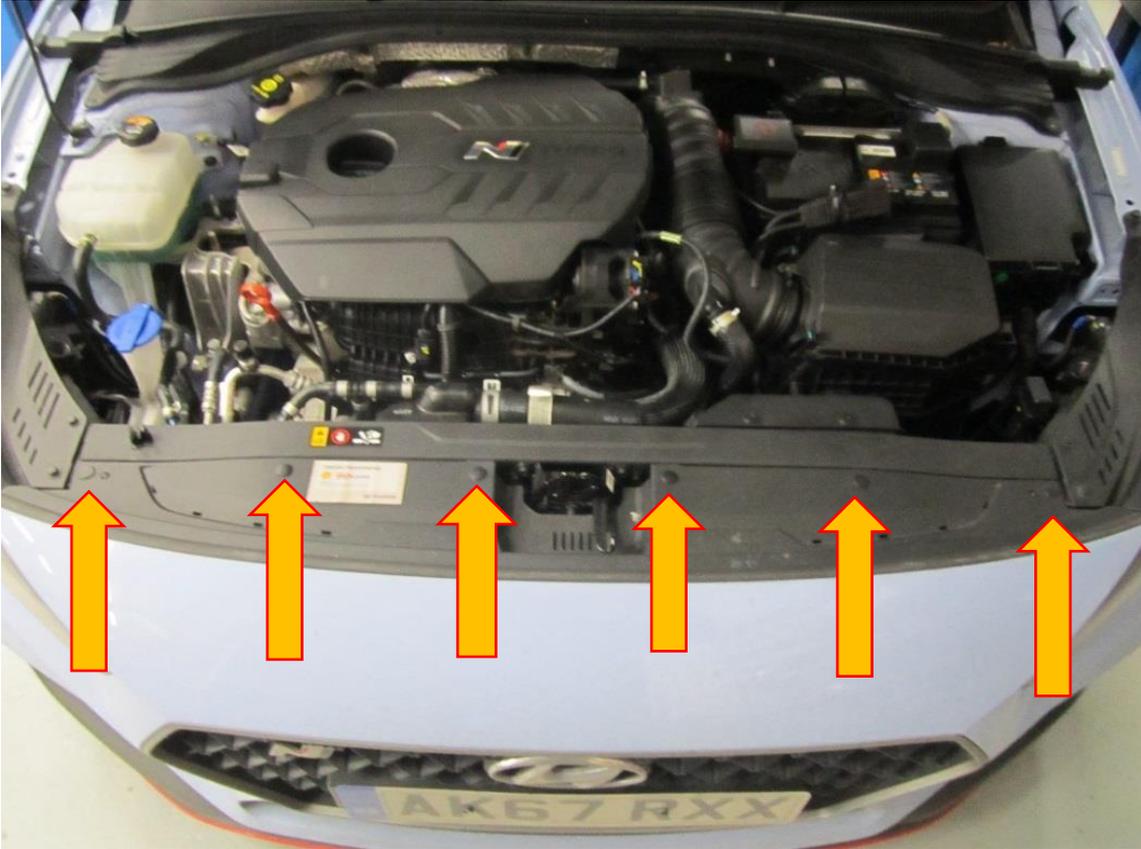


**Please thoroughly read through and familiarise yourself with these instructions in their entirety prior to beginning any part of the installation process of any component. Please also ensure the vehicle and engine has cooled down sufficiently to avoid risking possible skin burns or other injury.**

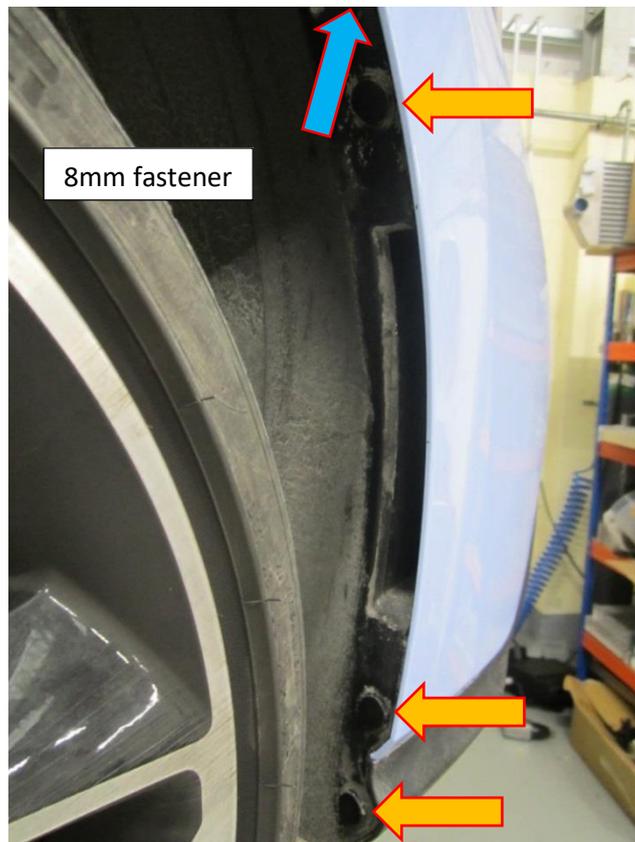
### **TOOLS NEEDED:**

- Flat blade screwdriver or trim removal tool
- 7/8/10/12/13mm Ratchet and Drive with extension
- Hack saw or angle grinder
- Phillips's screwdriver
- Side cutters
- Axel Stands & car jack/car ramp
- File

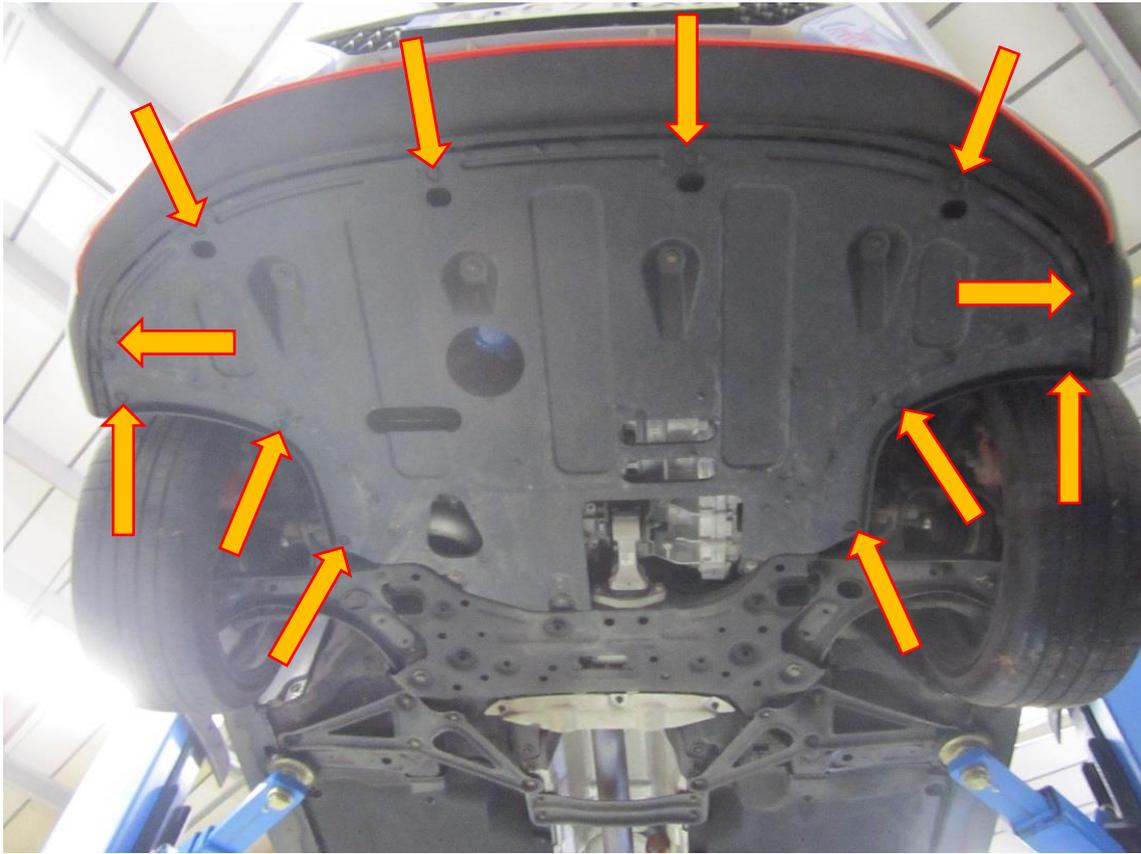
1. Park the vehicle securely, then open the bonnet and using a plastic trim tool or flat blade screwdriver remove the six plastic fasteners that run across the slam panel.



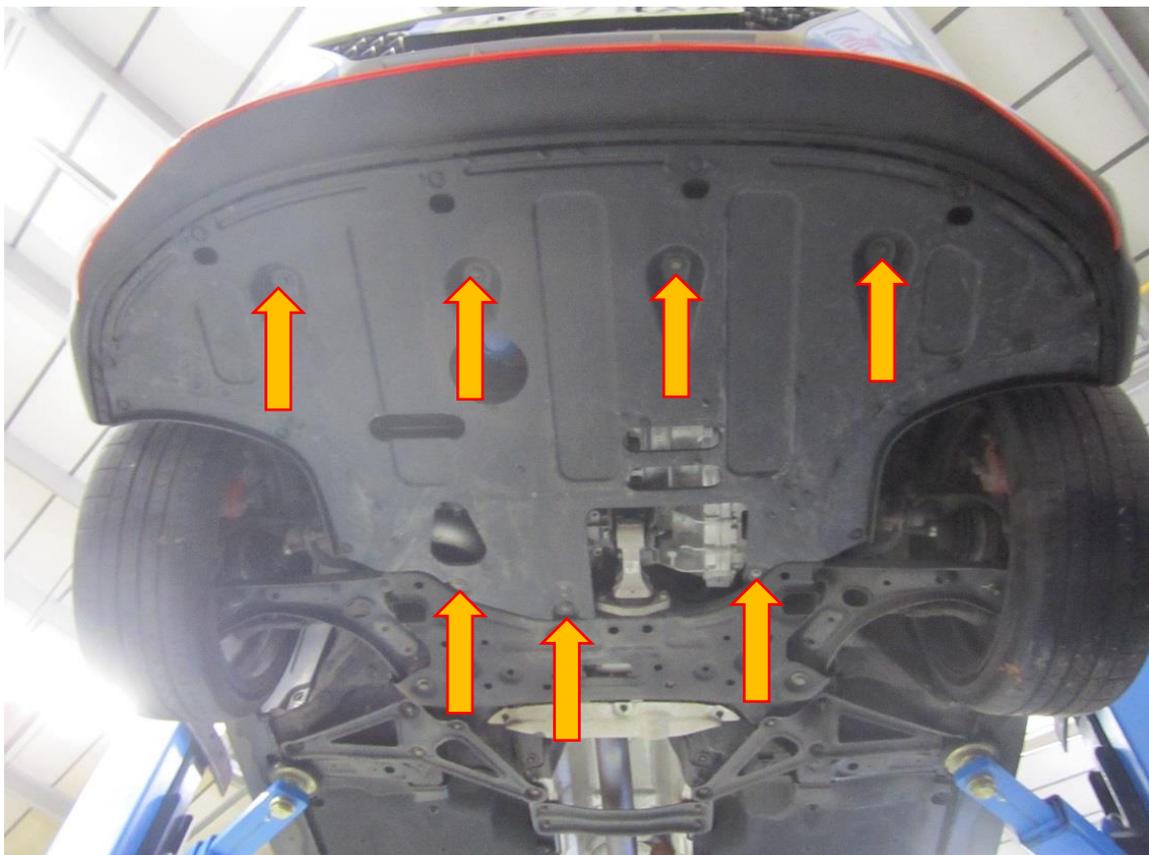
2. Using an 8mm socket and ratchet or Pozi drive remove the fastener at the top of the wheel arch. Using a plastic trim tool or flat blade screwdriver remove 3X plastic fasteners. This procedure is to be carried out on both sides.



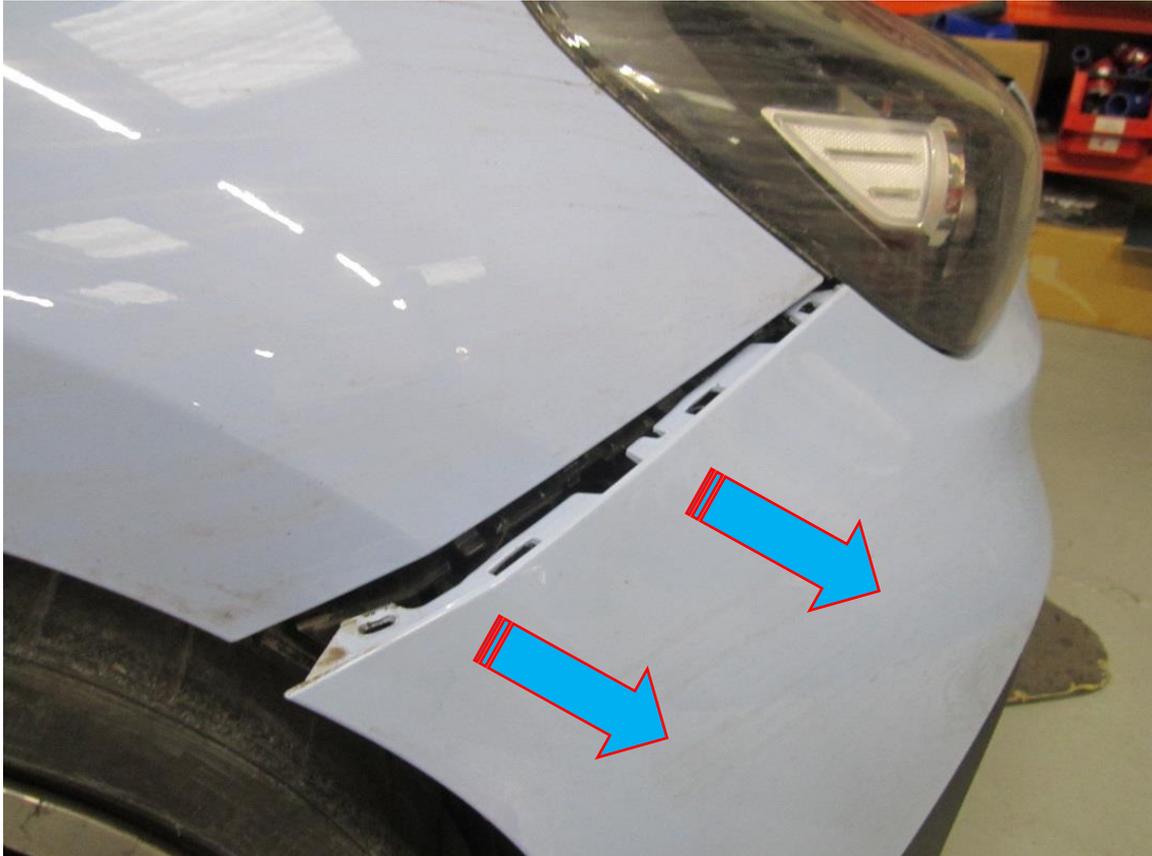
- Using a car ramp or jack and axel stands raise the vehicle in the air. With the aid of a trim tool or flat blade screwdriver remove 12 plastic fasteners attaching the under tray to the vehicle.



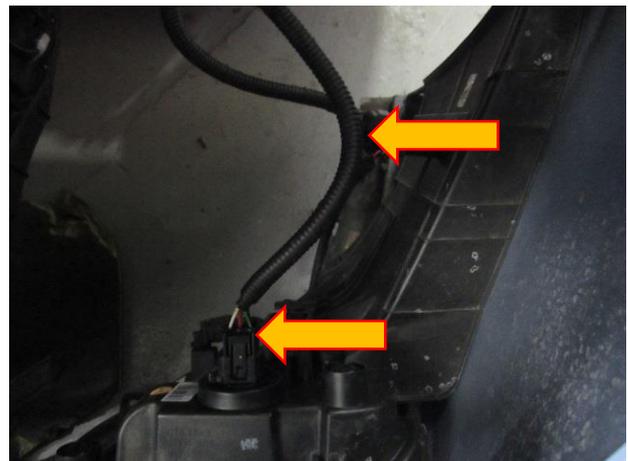
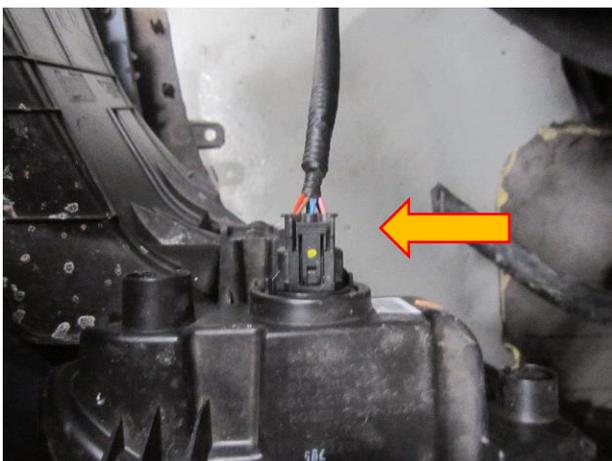
- Using a 10mm socket and ratchet drive remove the 7x fasteners left holding the belly pan in place and slide it towards the front of the car to remove it.



5. Pull sharply at the top corners of the bumper so that it comes away from its locating clips as shown in the picture.



With both sides now away from the body of the vehicle you now need to unplug both fog lights and parking sensor wiring looms indicated below.

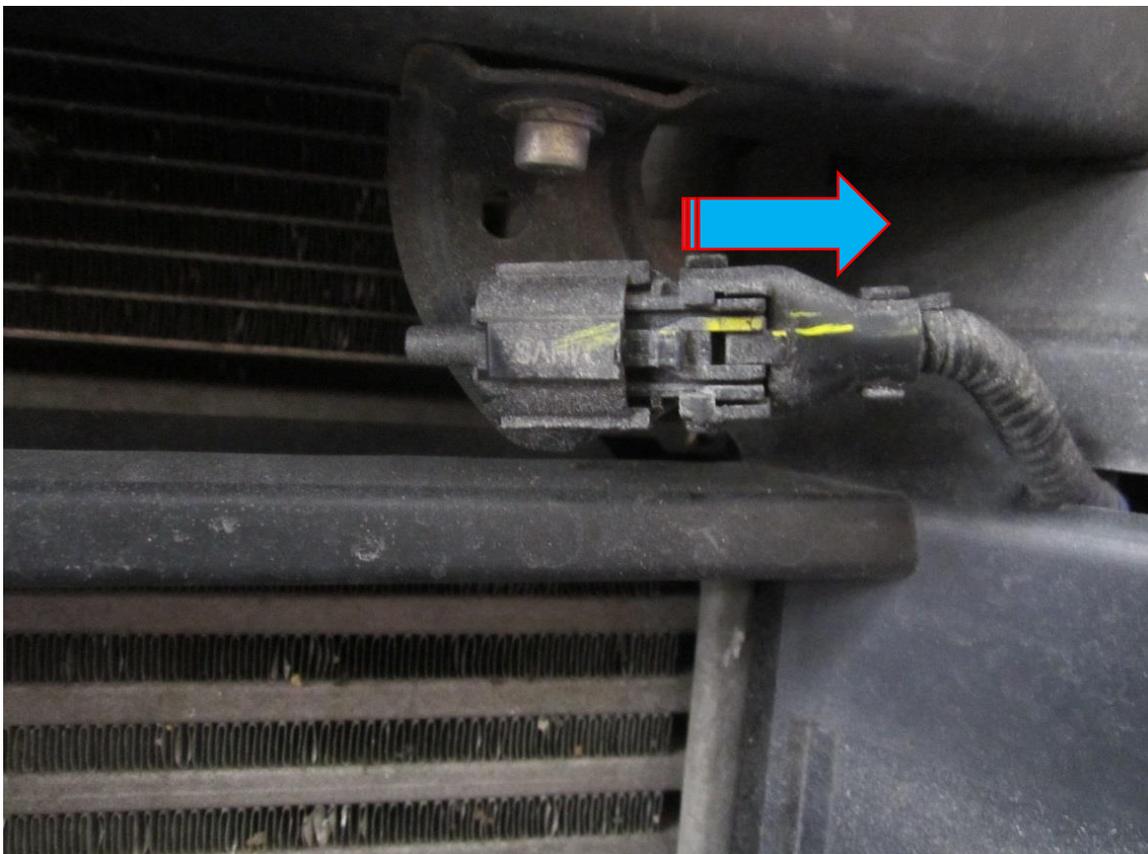


6. At this point the bumper can be removed completely from the vehicle.

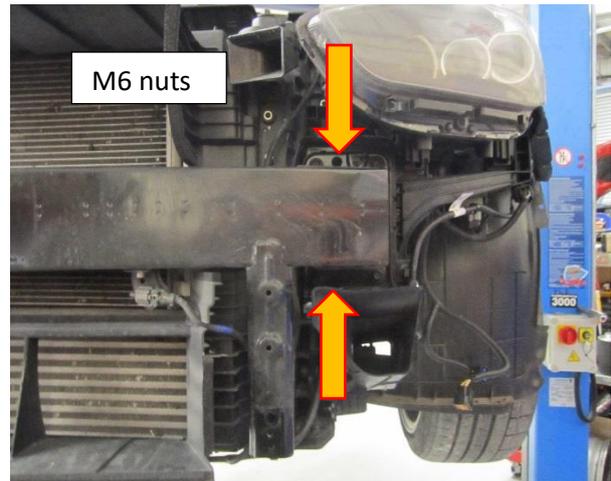
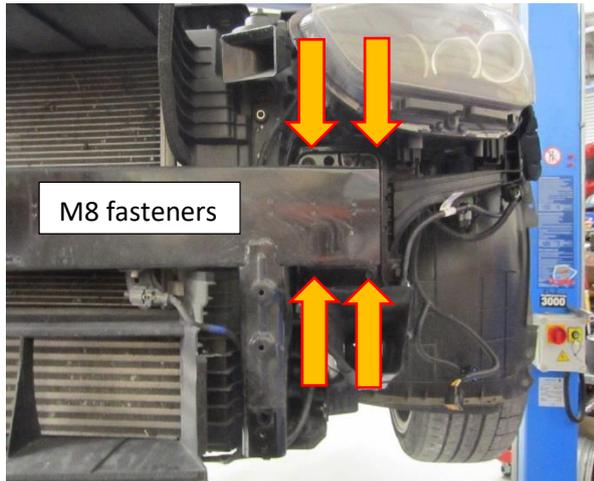
- Using a 10mm socket and ratchet remove the two M6 fasteners attaching the lower bumper support to the crash bar, now remove the support bar from the vehicle.



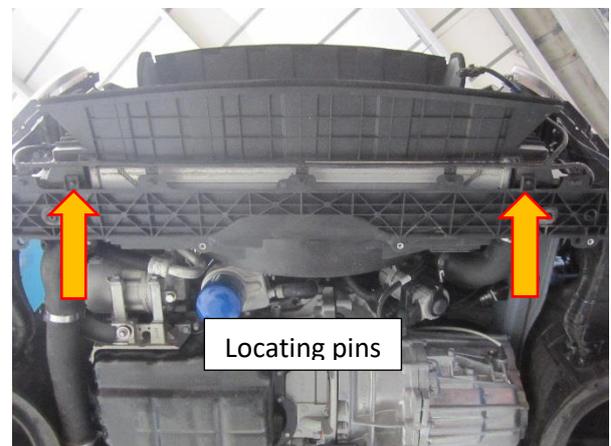
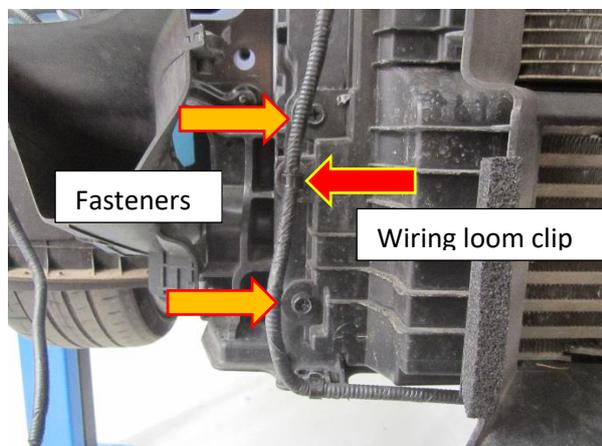
- Unplug the temperature sensor and using a trim removal tool or flat blade screwdriver lever the sensor away from the crash bar.



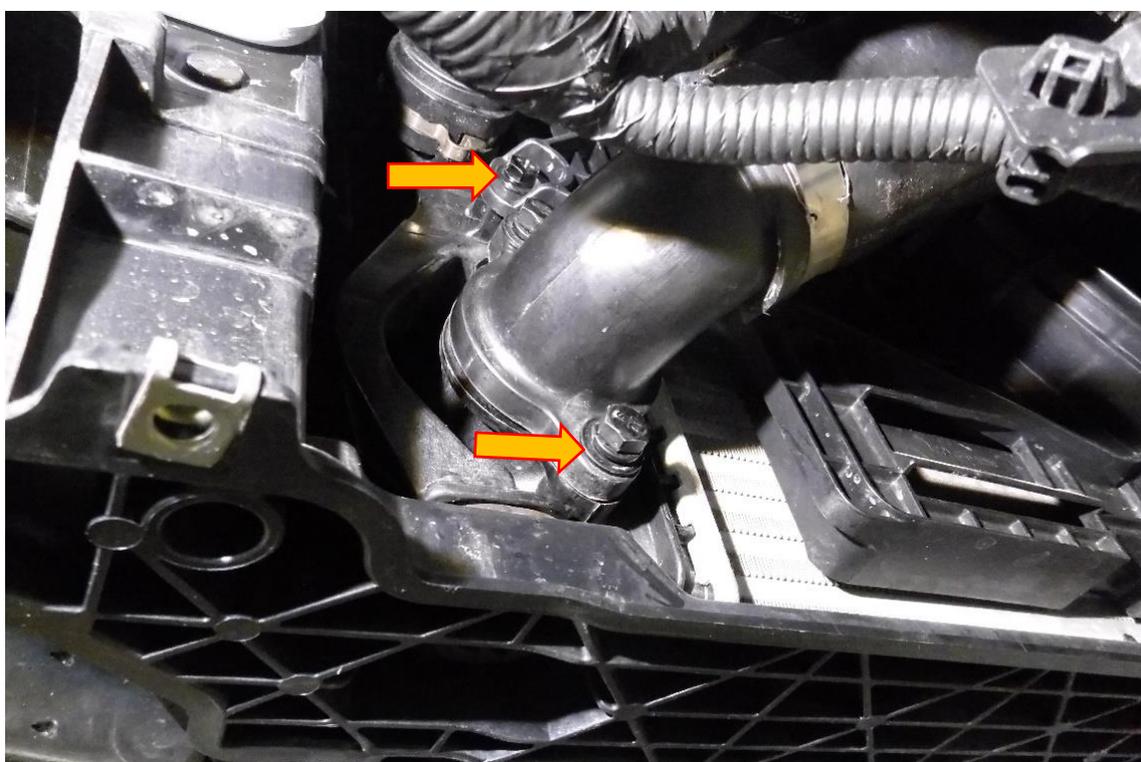
9. Using a 12mm socket and ratchet remove 8x M10 fasteners (x4 each side) and a 10mm socket and ratchet to remove 4x M6 nuts (x2 each side) attaching the crash bar to the vehicle.



10. Using a trim tool or flat blade screwdriver unclip the wiring loom that is attached either side of the ducting. With the use of a 10mm socket and ratchet drive remove the 4x M6 fasteners (x2 each side) attaching the ducting to the vehicle. Once they are removed the ducting can be pulled out, you may have to lever out the two locating pins at the bottom of the ducting when removing. **DO NOT REFIT DUCTING WITH NEW INTERCOOLER!**



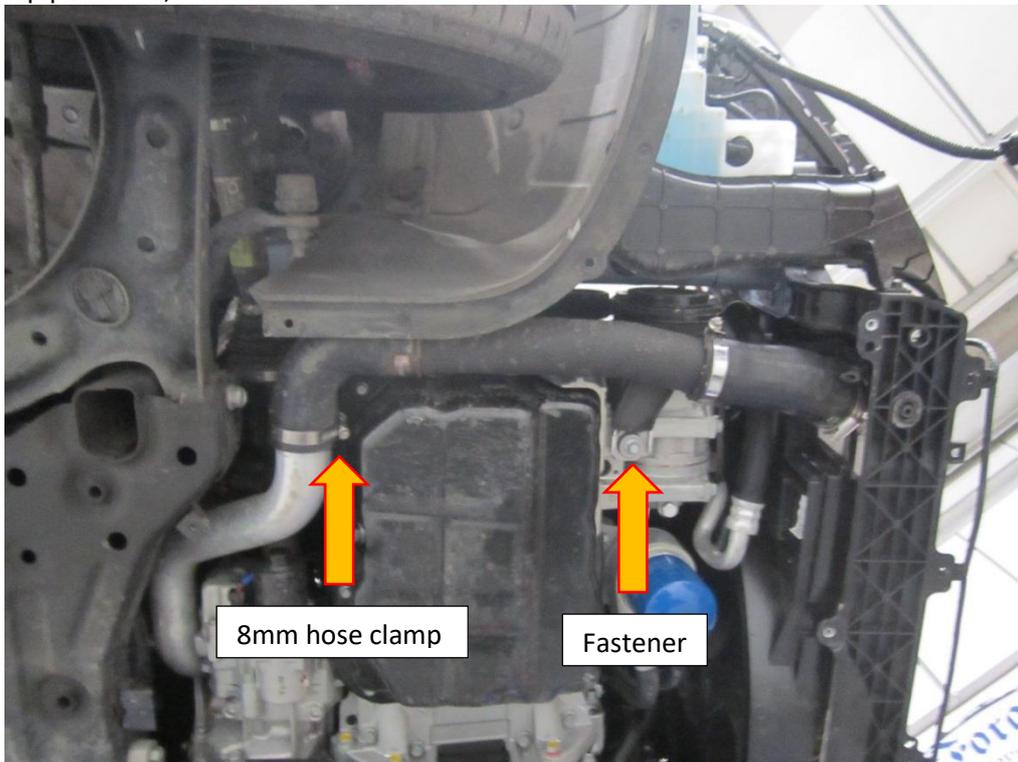
11. Using an 8mm socket and ratchet drive or a flat blade screwdriver loosen off both hose clamps attached to the intercooler. Using a 13mm socket and ratchet remove 2x M8 fasteners attaching the cold side elbow to the intercooler.



12. Using a 10mm socket and ratchet drive remove the 4x M6 fasteners attaching the intercooler to the vehicle. The intercooler can now be removed from the vehicle.



13. Using an 8mm socket and ratchet loosen the 8mm hose clamp in the same way as before, then using a 10mm socket and ratchet remove the fastener holding the OE hard pipe to the vehicle. Now remove the hose and pipe as one, from the vehicle.



14. Remove the metal sleeve and rubber grommet from the OE hard pipe and fit them to the new Forge hard pipe in the same way as the OE.

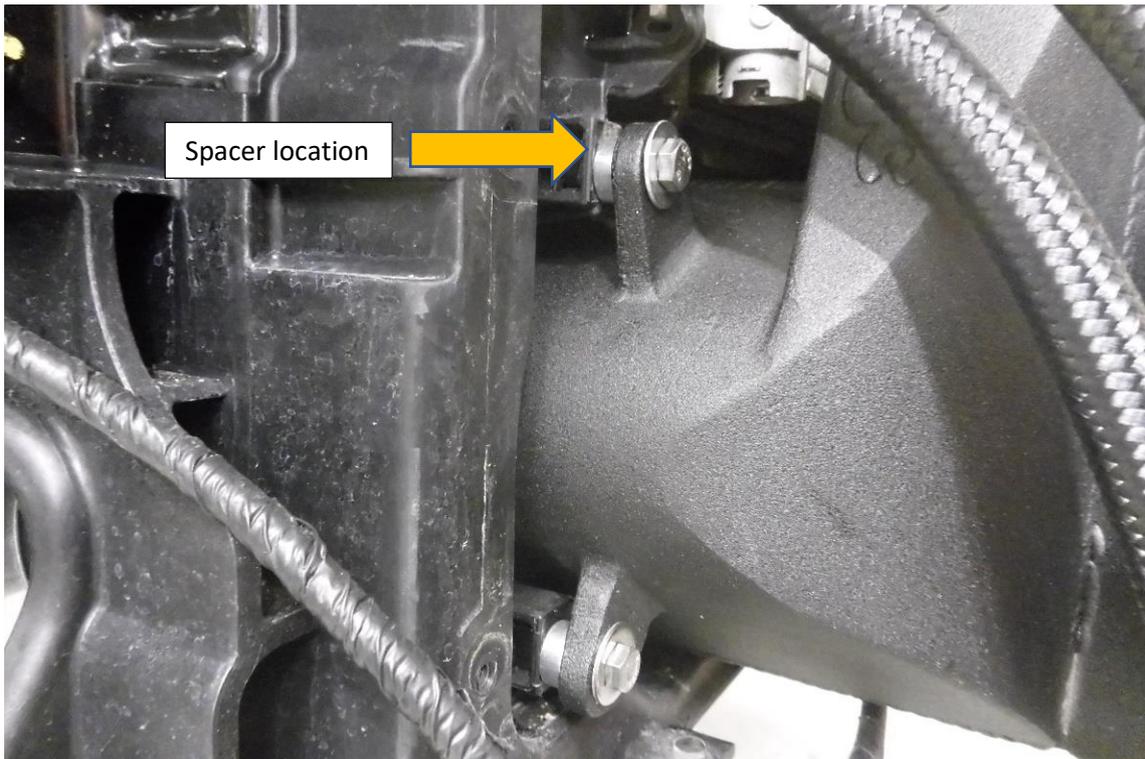


15. Before installing the Forge intercooler fit the short straight hose to the intercooler, you can now offer up the cooler to the car. To start with, angle the left-hand side of the intercooler into position first then the right. In some cases, you may need to file some material off the rad pack frame, use a file to remove some of the plastic on the corner of the moulding. This is located next to the hot side of the intercooler input.





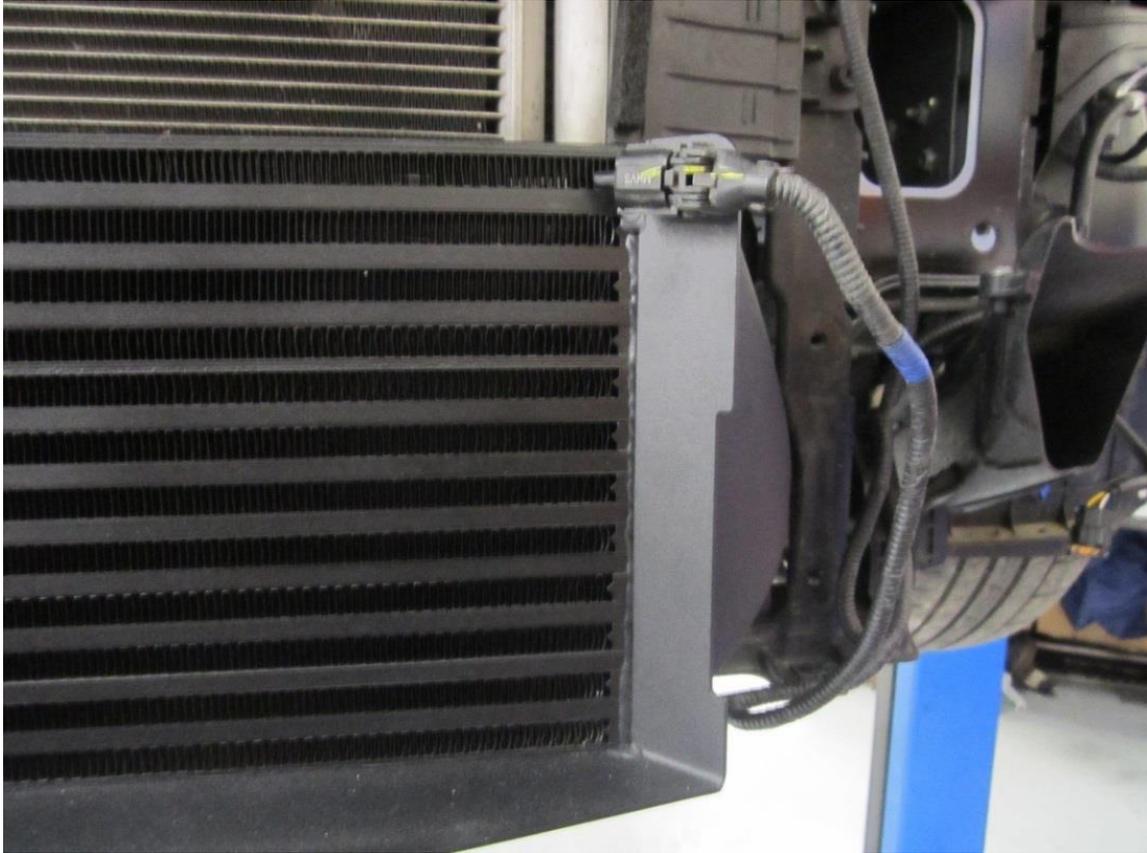
16. Using a 10mm socket and ratchet secure the intercooler to the vehicle with the supplied 4x M6 fasteners and washers and billet spacers as shown in the picture below.



17. Using an angle grinder or hack saw, cut off the temperature sensor bracket from the crash bar, we recommend painting over the cut mark to prevent corrosion.



18. With the Forge intercooler in place, you can now refit the temperature sensor, this pushes in and slides into the keyhole slot in the intercooler shroud.



19. Loosely fit all hoses to begin with. Fit the Forge hard pipe to short straight hose on the intercooler then fit the 90° silicone hose to the OE pipe and the other end of the Forge hard pipe, with both pipes attached move the hard pipe until the bracket lines up with the fastener hole and re-fit the OE fastener in place. Using a 7mm ratchet or flat blade screwdriver tighten up all the hose clamps.



20. Now fit largest hose to the cold side of the intercooler, secure in place using the supplied hose clamps.



21. Now follow steps 1-9 in reverse order to complete your installation of the Forge FMINT27. Once back together take your car for a test drive and enjoy the added performance from your new Forge Motorsport product.

Check out [www.forgemotorsport.co.uk](http://www.forgemotorsport.co.uk)  
and [www.forgemotorsport.com](http://www.forgemotorsport.com)

*For a full range of performance products for your vehicle.*

*If you have any questions or concerns about this product  
or anything else, please feel free to contact your local or preferred  
Forge Motorsport Dealer/Installer or you may contact us directly.*

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## **Important Information Regarding Your New Forge Cooling Product**

Thank you for purchasing a Forge Motorsport cooling product. You now have a product that simply leaves the competition behind – made in Great Britain, with a lifetime warranty. All you need to do now is install and maintain the product correctly to maximise its full potential.

All Forge products are tested before leaving our facility to ensure you 100% satisfaction and reliability.

### **General information and care for your Forge cooling product:**

- On installing your intercooler/radiator, be sure that all hose clamps and fittings are tightened to prevent any leakage.
- Ensure that the intercooler/radiator and the associated plumbing components are not rubbing on any body parts. This can cause premature failure and warranty invalidation from Forge.
- Do not use any car cleaning products, particularly traffic film remover solutions or shampoos to clean your intercooler, radiator or oil cooler. The use of these products can damage the Forge cooling systems and invalidate your warranty.
- Any cleaning should be done with hot soapy water and well rinsed.
- We recommend that you should inspect your product on a regular basis for bent and/or crushed fins. Any bent fins should be carefully straightened to allow ambient air to pass through the core face.
- At the time of installing your Forge product, an approved coolant must be used and added to the coolant system. Be sure you never mix coolant and always use distilled water.
- On Forge Oil Coolers, please ensure all hose clamps and fixings are tightened and secured to prevent leakage.
- Do not exceed 9 bar (130 psi) rating on your oil cooler.

### **What should you do if a fault develops?**

If you suspect that you have an issue, you should take your vehicle back to where the installation of your Forge product was carried out, or to a suitable and qualified tuner for investigation of the problem.

If you suspect that the problem has occurred due to faulty manufacture, please contact your Forge dealer or Forge Motorsport UK, Forge Motorsport USA or Forge Motorsport Asia, depending on your geographical location, to discuss the issue.

### **How to get the Best from your Forge cooling products**

- Ensure the fitting is carried out by a reputable and competent garage, tuner, or mechanic.
- Carry out regular visual checks, inspections, and servicing.
- Only fit the Forge cooling product for the application that it was designed for.
- Do not fit other parts that could detrimentally affect the efficiency of your Forge cooling product.



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